

What the invention claimed is:

1. An apparatus for sterilizing and sprouting grains comprising:

5 a container adapted to hold grains for sprouting, said container comprising an water inlet pipe adapted to guide fresh water from an external water source to the inside of said container, an overflow pipe adapted to guide an overflow of water out of said container, a grains discharge control valve disposed at a bottom side thereof and controlled to discharge
10 sprouted grains out of said container;

a top cover covering said a top side of said container, said top cover comprising a plurality of ultraviolet lamps adapted to sterilize water contained in said container;

15 a water supply coil mounted inside said container and connected to said water inlet pipe, said water supply coil having a plurality of water outlets adapted to guide water from said water inlet pipe into the inside of said container;

a disk-like wire gauze filter mounted in said container above said water supply coil, said bowl-like wire gauze filter
20 having a bottom outlet pipe connected to said grains discharge control valve; and

active carbon blocks mounted in said container and

filled up the space between said water supply coil and said bowl-like wire gauze filter.

2. The apparatus for sterilizing and sprouting grains as claimed in claim 1 further comprising a temperature sensor
5 adapted to examine the temperature of water contained in said container.

3. The apparatus for sterilizing and sprouting grains as claimed in claim 1 further comprising a water drain pipe connected to said container and adapted to guide all water away
10 from said container.

4. The apparatus for sterilizing and sprouting grains as claimed in claim 1 further comprising lock means provided at said container and adapted to lock said top cover.

5. The apparatus for sterilizing and sprouting grains as
15 claimed in claim 1 further comprising ultrasonic generator means provided in said container and embedded in said active carbon blocks and adapted to generate ultrasonic waves.

6. The apparatus for sterilizing and sprouting grains as claimed in claim 1 further comprising an ozone supply pipe
20 connected to said water inlet pipe and adapted to guide ozone from an external ozone supply source to water passing through said water inlet pipe to said water supply coil.

7. The apparatus for sterilizing and sprouting grains as claimed in claim 6 further comprising an ozone sensor mounted in said container and adapted to examine ozone concentration in water contained in said container.

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